



Philips MasterColor®  
CDM 25W Integrated  
PAR38 Ceramic Metal  
Halide Lamps featuring  
ALTO® Lamp Technology

*Ideal for general, ambient  
or accent lighting*

MasterColor® CDMi



† This lamp is better for the environment because of its reduced mercury content. All Philips ALTO® lamps give you end-of-life options which can simplify and reduce your lamp disposal costs depending on your state and local regulations.

## Transform your business with a simple twist!

The Philips MasterColor® 25W Integrated is an all-in-one lamp and ballast in a PAR38 reflector.

### MasterColor® Technology

- Energy savings—Up to 3x less energy consumption than standard 75W PAR38 halogen lamps with comparable light output
- 15,000 hours rated average life<sup>1</sup>—Lasts up to 3x longer than standard 75W PAR38 halogen lamps
- Very good color rendering of 87, crisp white light (3000K)
- Improved light output—1450 initial lumens

### Integrated electronic ballast

- Easy upgrade and instant retrofit from halogen PAR38
- High power factor (.96)—more lamps can be used on each circuit

### Familiar PAR38 shape and size

- Simple 'twist in' for one step easy installation
- Easy maintenance
- 10°, 25°, and 40° beam spread

(1. See back page for footnote)

# PHILIPS

# Philips MasterColor® CDM 25W Integrated PAR38 Ceramic Metal Halide Lamps featuring ALTO® Lamp Technology

MasterColor® CDMi

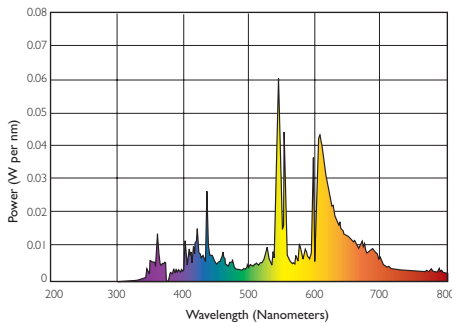
## Ordering Data (Subject to change without notice)

| Product Number | Ordering Code          | Pkg. Qty. | Beam             | MBCP <sup>2</sup> |
|----------------|------------------------|-----------|------------------|-------------------|
| 14477-4        | CDM-i 25W/PAR38/SP/3K  | 6         | Spot (10°)       | 26,000            |
| 14478-2        | CDM-i 25W/PAR38/FL/3K  | 6         | Flood (25°)      | 5600              |
| 14479-0        | CDM-i 25W/PAR38/WFL/3K | 6         | Wide Flood (40°) | 2100              |

## Electrical and Technical Data

|                                |              |
|--------------------------------|--------------|
| Wattage                        | 25W          |
| Input Voltage                  | 120V±10%     |
| Max. THD                       | 142%         |
| Frequency                      | 60Hz         |
| Input Current <sup>3</sup>     | 0.22         |
| Warm-up to 80% Full Brightness | 2 minutes    |
| Restrike Time for Hot Lamps    | 5-7 minutes  |
| Minimum Operating Temp.        | -20°C (-4°F) |

Spectral Power Distribution



## Physical Characteristics

|                                    |                         |
|------------------------------------|-------------------------|
| Bulb Size                          | PAR38                   |
| Bulb Finish                        | Clear                   |
| Base                               | Medium                  |
| Max. Overall Length (MOL)          | 5.33" (135mm)           |
| Light Center Length (LCL)          | N/A                     |
| Arc Length                         | N/A                     |
| Arc Tube Material                  | Polycrystalline Alumina |
| Max. Ring Temp.                    | 65°C (149°F)            |
| Max. Cap Temp.                     | 65°C (149°F)            |
| Max. Neck Temp.                    | 80°C (176°F)            |
| Max. Arc Tube to Base Eccentricity | 3°                      |

## Operating Characteristics

|   |                |
|---|----------------|
| Approx. Initial Lumens <sup>4</sup>       | 1450           |
| Approx. Mean Lumens <sup>4,5</sup>        | 1000           |
| Rated Average Life, Hours <sup>1</sup>    | 15,000         |
| Correlated Color Temp. (CCT) <sup>2</sup> | 3000K          |
| CIE Chromaticity Approx. <sup>2</sup>     | x-.429, y-.395 |
| Color Rendering Index (CRI)               | 87             |
| Efficacy (lpw)                            | 58             |
| Beam Angle (at 50% of MBCP)               | 10°/25°/40°    |

## Operating Position

Universal-Open or Enclosed PAR Style Luminaires  
(Do not use in totally enclosed recessed luminaires.)

## Warnings, Cautions and Operating Instructions

**WARNING:** These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available." This lamp complies with FDA radiation performance standard 21 CFR subchapter J. (US-A:21CFR 1040.30 Canada:SOR/DORS/80-381)

**If the outer bulb is broken or punctured, turn off at once and replace the lamp to avoid possible injury from hazardous short wave ultraviolet radiation. Do not scratch the outer bulb or subject it to pressure as this could cause the outer bulb to crack or shatter. A partial vacuum in the outer bulb may cause glass to fly if the envelope is struck.**

**WARNING:** The arc-tube of metal halide lamps are designed to operate under high pressure and at temperatures up to 1000°C and can unexpectedly rupture due to internal or external factors such as a ballast failure or misapplication. If the arc-tube ruptures for any reason, the outer bulb may break and pieces of extremely hot glass might be discharged into the surrounding environment. If such a rupture were to happen, **THERE IS A RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE.**

**This lamp contains an arc tube with a filling gas containing less than 41 nCi of Kr-85 and is distributed by Philips Lighting Company, a division of Philips Electronics North America Corporation, Somerset, New Jersey, 08875.**

**CAUTION:** TO REDUCE THE RISK OF PERSONAL INJURY, PROPERTY DAMAGE, BURNS AND FIRE RESULTING FROM AN ARC-TUBE RUPTURE THE FOLLOWING LAMP OPERATING INSTRUCTIONS MUST BE FOLLOWED.

### LAMP OPERATING INSTRUCTIONS:

- At high lighting levels or when illuminating light-sensitive materials the use of an extra UV filter is recommended.
- Before lamp installation/replacement, shut power off and allow lamp and fixture to cool to avoid electrical shock and potential burn hazards.
- Time should be allowed for lamps to stabilize in color when turned on for the first time. This may require several hours of operation, with more than one start. Lamp color is also subject to change under conditions of excess vibration or shock, and color appearance may vary between individual lamps.
- Lamps may require up to 10 minutes to re-light if there is a power interruption.
- Do not operate with an additional ballast, since a ballast is integrated in the lamp itself.
- Do not use in totally enclosed recessed fixtures.
- Take care in handling and disposing of lamps. If an arc tube is broken, avoid skin contact with any of the contents or fragments.
- Lamp should not be used with dimmers.
- Protect lamp, lamp socket and wiring against moisture, corrosive atmosphere and excessive heat. Lamp should be used in dry locations only.

These lamps may be used in open fixtures.

**Hg: LAMP CONTAINS MERCURY Manage in Accord with Disposal Laws See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-800-555-0050**

- Rated average life is the life obtained, on the average, from large representative groups of lamps in laboratory tests under controlled conditions at 10 or more operating hours per start. It is based on survival of at least 50% of the lamps and allows for individual lamps or groups of lamps to vary considerably from the average.
  - Maximum Beam Candlepower.
  - New construction should allow for the current used by these lamps. Because of a high power factor of 0.96 in the ballast of the lamp, the lamp only uses .22 amps.
  - Measured at 100 hrs. life. Approximate lumen values listed are for vertical operation of the lamp.
  - Approximate lumen output at 40% of lamp rated average life.
- This product utilizes ALTO® Lamp Technology. ALTO products pass the US EPA's Toxicity Characteristic Leaching Procedure (TCLP) and can be classified as non-hazardous waste. Check with state and local regulations.



Do not place in trash - dispose according to local, state, or federal laws



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